

Serial No. 10/022,578

4

ONET-0101 PUS

In the Claims:

1. (Currently Amended) A method of authenticating a user having a user privilege server proxy for a network system having a privilege server, a head end server and a web adapter comprising:

presenting user information to the web adapter from the user privilege server proxy;

presenting the user information to a head end server;

presenting the user information to the privilege server from the head end server;

validating the user in response to the user information;

when a user is validated, generating a ticket for the user at the privilege server;

providing the ticket to the user privilege server proxy through the head end server;

forming a service access request token from the ticket and user identification;

sending the token from the user to the privilege server;

validating the user in response to the token;

forming a packet having a sequence number, session key and the ticket at the privilege server;

providing the packet to the head-end server;

in response to receiving the packet, authenticating the user at the head end server;

providing the packet to the user privilege server proxy;

sending the ticket and sequence number encrypted with the session key to a service server through the web adapter;

validating the user at the service server; and

granting the user role based privileges at the service server.

2. (Original) A method as recited in claim 1 further comprising the step of negotiating the authentication scheme between the server proxy and privilege server.

3. (Currently Amended) A method as recited in claim [[1]] 2 wherein negotiating [[an]] the authentication scheme between the server proxy and privilege server comprises presenting at least one security mechanism from the user privilege proxy server to the privilege server; accepting or rejecting the at least one security mechanism at the privilege server.

Serial No. 10/022,578

5

ONET-0101 PUS

4. (Currently Amended) A method as recited in claim [[1]] 2 wherein the step of validating comprises validating the user in response to the user information in accordance with the authentication scheme.

5. (Original) A method as recited in claim 1 further comprising the step of encrypting the ticket with a user password to form an encrypted ticket.

6. (Original) A method as recited in claim 1 further comprising the step of decrypting the encrypted ticket at the user privilege server proxy.

7. (Original) A method as recited in claim 1 further comprising the steps of forming a packet having a sequence number and session key encrypted with the ticket at the privilege server decrypting the packet at the user privilege server proxy.

8. (Currently Amended) A method of authenticating a user having a user privilege server proxy for a network system having a privilege server, a head end server and a web adapter comprising:

negotiating an authentication scheme between the server proxy and privilege server;

presenting user information to the web adapter;

presenting the user information to [[a]] the head end server;

presenting the user information to the privilege server from the head end server;

validating the user at the privilege server in response to the user information in accordance with the authentication scheme;

when a user is validated, generating a ticket for the user at the privilege server;

encrypting the ticket with a user password to form an encrypted ticket;

providing the encrypted ticket to the user privilege server proxy through the head end server;

decrypting the encrypted ticket;

forming a service access request token from the ticket and user identification at the user privilege server proxy;

sending the token from the user privilege server proxy to the privilege server;

validating the user in response to the token;

forming a packet having a sequence number and session key encrypted with the ticket at the privilege server;

Serial No. 10/022,578

6

ONET-0101 PUS

providing the packet to the head-end server;
in response to the packet, authenticating the user at the head end server;
providing the packet to the user privilege proxy;
decrypting the packet;
sending the ticket and sequence number encrypted with the session key to a service server through the web adapter;
validating the user at the service server; and
granting the user role based privileges at the service server.

9. (Original) A method as recited in claim 8 wherein negotiating an authentication scheme between the server proxy and privilege server comprises presenting at least one security mechanism from the user privilege proxy server to the privilege server; accepting or rejecting the at least one security mechanism at the privilege server.

10. (Original) A method as recited in claim 8 wherein the step of authenticating is performed by a policy engine within the privilege server.

11. (Currently Amended) A method as recited in claim 8 wherein generating a ticket comprises generating [[a]] the ticket by encrypting the [[user]] the ticket with a session key.

12. (Original) A method for accessing a service comprising:
presenting a ticket and sequence number to a service through the web adapter;
choosing a service in the service server;
sending the session name encrypted with the ticket and user identification to the privilege server and requesting a session key and sequence number;
receiving the session name from the user;
validating the user ticket and privilege;
when the user is validated, issuing the session key and sequence number for the ticket;
encrypting the session key and sequence number with the ticket to form a packet;
sending the packet and ticket to the service.

13. (Original) A system for authenticating a user having a user privilege server proxy for generating user information comprising:

Serial No. 10/022,578

7

ONET-0101 PUS

a web adapter coupled to said user privilege server proxy for receiving user information;

a service server coupled to said web adapter;

an intermediate server coupled to the web adapter for receiving said user information;

a privilege server coupled to said intermediate server, said privilege server receiving said user information and validating said user in response to said use information, said privilege server generating a ticket;

said user privilege server proxy receiving said ticket through said intermediate server and generating a token;

said privilege server generating a packet having a sequence number and a session key in response to said token and coupling said packet to said user privilege server proxy;

said user privilege server proxy coupling the ticket and sequence number to said service server through said web adapter;

said service server validating said user and granting said user privileges in response to the ticket and session key.

14. (Original) A system as recited in claim 13 wherein said intermediate server comprises a head end server.

15. (Original) A system as recited in claim 13 wherein said user information comprises a user identification number.

16. (Original) A system as recited in claim 13 wherein said privilege server has a policy engine therein.

17. (Original) A system as recited in claim 16 wherein said privilege server comprises a key generator coupled to the policy engine.

18. (Original) A system as recited in claim 16 wherein said privilege server comprises a proxy coordinator coupled to the policy engine.

19. (Original) A system as recited in claim 16 wherein said privilege server comprises an obfuscator/deobfuscator coupled to the policy engine.

Serial No. 10/022,578

8

ONET-0101 PUS

20. (Original) A system as recited in claim 16 wherein said privilege server comprises a store keeper coupled to the policy engine.

21. (Original) A system as recited in claim 20 wherein said store keeper comprises a user information list and a session information list.

22. (Original) A system as recited in claim 13 wherein said service server validating said user and granting said user privileges in response to the ticket, session key and sequence number.

23. (Original) A method of authenticating a user having a user privilege server proxy for a network system having a privilege server, a head end server and a web adapter, said method comprising:

determining an authentication scheme at the privilege server;

validating the user at the privilege server in response to user information in accordance with the authentication scheme;

when a user is validated, generating a ticket for the user at the privilege server;

encrypting the ticket with a user password to form an encrypted ticket;

validating the user in response to a service access request token formed from the ticket and a user identification; and

forming a packet having a sequence number and session key encrypted with the ticket at the privilege server to authenticate the user.